

*a<sup>1</sup> cancel'd.*  
 --As described above, according to the magnetic pole position detector of this invention, because a magnetic loop is concentrated on both ends of the plate 25, the phase shift of the output signal of the magnetic sensor 27 is not likely to occur, so the detection of the position of the magnetic poles of the rotor 17 is always performed with accuracy.--

### IN THE CLAIMS:

Please add the following new claims:

*a<sup>2</sup>*  
 12. (New) The magnet pole position detector as in claim 1, wherein the magnetic sensor comprises three sensors.

*SUB B<sup>1</sup>*  
 13. (New) The magnet pole position detector as in claim 12, wherein the sensors are positioned at approximately 30-degree intervals.

14. (New) The magnet pole position detector as in claim 1, wherein in one variation cycle the signal has two non-negative maxima and two non-positive minima.

15. (New) The magnet pole position detector as in claim 14, wherein the signal has a sharp variation between one of the maxima and one of the minima.

### IN THE DRAWINGS:

Please amend the drawings as shown in red on the attached Proposed Changes to the Drawings.

### REMARKS

The Office Action mailed May 9, 2001 has been reviewed and the comments of the Patent and Trademark Office have been carefully considered. Claims 1-11 were pending in the application. Claims 12-15 have been added. Support for new claims 12 and 13 can be found, for example, on page 8, lines 2-6 of the present application. Support for new claims 14 and 15 can be found, for example, in Figs. 4A - 4D. No claims have been canceled. Therefore, claims 1-15 are pending in the application and are submitted for reconsideration.